

PFP195 Premium Ultra Low-Loss RF Communications Cable



The PCTEL® PFP195 Cable is an ideal cable for longer RF cable runs that require high flexibility as well as low signal attenuation. PFP195 cable balances flexibility and high performance, making this cable uniquely suited for jumpers or long cable runs that require low levels of attenuation.

PCTEL's PFP line of cable is specifically designed to optimize radio frequency communications from 30MHz up to 6GHz. PCTEL offers a complete line of bulk cable for large installation projects, premium pre-made cable assemblies, and a wide variety of connector types, including reverse polarity, are available for most PFP cable sizes.

Standard Configurations*

Part Number	Length
PFP195-REEL-1K	1000-ft reel

*Please contact PCTEL Customer Service at (800) 323-9122 for custom reel size and Custom Cable Assemblies.

Features

- Outdoor rated: UV-stable jacket and water-resistant construction
- Easily routed, flexible construction
- High-performance, lightweight design
- Ideal for RF applications including GPS, LMR, WLAN, SCADA, PTC, etc.

SPECIFICATIONS

PFP195 CABLES

Typical Attenuation by Frequency

Frequency	Attenuation (dB/100ft)
30 MHz	2.0 dB
50 MHz	2.5 dB
150 MHz	4.4 dB
220 MHz	5.4 dB
450 MHz	7.8 dB
700 MHz	9.8 dB
800 MHz	10.5 dB
900 MHz	11.1 dB
1500 MHz	14.5 dB
2000 MHz	16.9 dB
2500 MHz	19.0 dB
5800 MHz	29.9 dB

Electrical Characteristics

Specification	Measurement
Capacitance	25.4 pF/ft
Impedance	50 Ω
Velocity	80%
DC Resistance	Inner conductor Outer conductor
	< 7.6 Ω/1000 ft < 4.9 Ω/1000 ft
Shielding Effectiveness	> 90 dB
Jacket Spark	3000 VAC
Cut-Off Frequency	41 GHz
Peak Power	2.5 kW

Mechanical/Environmental Specifications

Specification	Measurement
Bend Installation Radius (Min.)	12.1 mm
Bend Repeated Radius (Min.)	50.8 mm
Storage Temperature	-70°C to 85°C (-94°F to 185°F)
Installation Temperature	-40°C to +85°C (-40°F to +185°F)
Operating Temperature	-40°C to +85°C (-40°F to +185°F)

For more information
about this product
contact your sales
representative or visit
➤ pctel.com/cables

Construction Specifications

Cable Section	Material	Diameter
Jacket	Polyethylene	.195 in (4.95 mm)
Braid	Tin-Plated Copper	.139 in (3.53 mm)
Outer Conductor	Aluminum Tape	.116 in (2.94 mm)
Dielectric	Foam Polyethylene	.110 in (2.79 mm)
Inner Conductor	Solid BC	.037 in (.94 mm)



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